

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 612.45082X00 U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/538089
INTERNATIONAL APPLICATION NO. PCT/FR2003/003583	INTERNATIONAL FILING DATE 03 December 2003	PRIORITY DATE CLAIMED 10 December 2002
TITLE OF INVENTION METHOD FOR MODELLING HYDRODYNAMIC CHARACTERISTICS OF MULTIPHASE FLOWS BY NEURAL NETWORKS		
APPLICANT(S) FOR DO/EO/US Isabelle REY-FABRET, et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: Figs. 1-2; Request for Examination and Search Form and Credit Card Payment Form 		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. APPLICATION NO. 107538089 (If known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO. PCT/FR2003/003583		ATTORNEY'S DOCKET NUMBER 612.45082X00	
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21. The following fees are submitted: <input checked="" type="checkbox"/> a) Basic national fee .. \$300.00 <input checked="" type="checkbox"/> b) Examination fee .. \$200.00 <input checked="" type="checkbox"/> c) Search fee .. \$500.00 TOTAL OF ABOVE CALCULATIONS = \$1000.00				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">Applicant use</th> <th style="width:50%;">Office use only</th> </tr> <tr> <td>\$ 300.00</td> <td></td> </tr> <tr> <td>\$ 200.00</td> <td></td> </tr> <tr> <td>\$ 500.00</td> <td></td> </tr> <tr> <td>\$ 1000.00</td> <td></td> </tr> </table>		Applicant use	Office use only	\$ 300.00		\$ 200.00		\$ 500.00		\$ 1000.00	
Applicant use	Office use only														
\$ 300.00															
\$ 200.00															
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<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.															
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE												
- 100 =	/50 =		x \$250.00	\$											
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$											
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE												
Total claims	4 - 20 =	0	x \$50.00	\$0.00											
Independent claims	1 - 3 =	0	x \$200.00	\$0.00											
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$0.00											
TOTAL OF ABOVE CALCULATIONS =				\$0.00											
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$											
SUBTOTAL =				\$ 1000.00											
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+	\$										
TOTAL NATIONAL FEE =				\$ 1000.00											
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$ 40.00										
TOTAL FEES ENCLOSED =				\$ 1040.00											
Amount to be refunded:					\$										
Amount to be charged					\$										

a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.


c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 01-2135. A duplicate copy of this sheet is enclosed.

d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:
 Antonelli, Terry, Stout & Kraus, LLP
 1300 North Seventeenth Street
 Suite 1800
 Arlington, Virginia 22209

Customer No. 020457


 SIGNATURE
 Alan E. Schiavelli
 NAME
 32,087
 REGISTRATION NUMBER

ATTACHMENT

International Application No. PCT/FR2003/003583	International Filing Date 03 December 2003	Attorney Docket No. 612.45082X00
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1. International Publication No. WO 2004/063983 A2- Full Copy
2. Notification of Receipt of Record Copy
3. Notification Concerning Submission or Transmittal of Priority Document
4. Notice Informing the Application of the Communication of the International Application to the Designated Offices
5. International Search Report

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Isabelle REY-FABRET, et al.
Application No.: Not Yet Assigned
Filed: June 8, 2005
For: METHOD FOR MODELLING HYDRODYNAMIC
CHARACTERISTICS OF MULTIPHASE FLOWS
BY NEURAL NETWORKS

REQUEST FOR EXAMINATION AND SEARCH

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

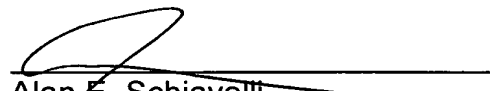
June 8, 2005

Sir:

Applicants respectfully request that a search and examination be conducted in the above-identified application. The necessary search fee and examination fee are enclosed herewith.

Please charge any shortage in the fees due in connection with the filing of this paper, including excess claim fees, to Deposit Account No. 01-2135 (referencing case No. 612.45082X00), and please credit any excess fees to such deposit account.

Respectfully submitted,


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